

Appendix S2. List of all butterfly species collected at each study site (listed in alphabetical order by subfamilies), with total number of individuals observed.

I. Barro Colorado Island

HESPERIIDAE

Eudaminae

<i>Aguna panama</i> Austin & Mielke, 1998	1
<i>Astrartes alector</i> (Plötz, 1881)	3
<i>Astrartes apastus</i> (Cramer, 1777)	1
<i>Astrartes creteus</i> (Cramer, 1780)	4
<i>Astrartes egregius</i> (Butler, 1870)	1
<i>Astrartes fulgerator</i> (Walch, 1775)	2
<i>Astrartes janeira</i> (Stoll, 1781)	2
<i>Astrartes</i> sp. 1	2
<i>Autochton longipennis</i> (Hübner, 1818)	1
<i>Bungalotis midas</i> (Cramer, 1775)	1
<i>Dyscophellus phraxanor</i> (Hewitson, 1876)	2
<i>Euriphellus euribates</i> (Stoll, 1782)	1
<i>Hyalothyris neleus</i> (Mabille, 1888)	2
<i>Nascus phocus</i> (Cramer, 1777)	1
<i>Phanus albiapicalis</i> Austin, 1993	2
<i>Phanus marshallii</i> (Kirby, 1880)	18
<i>Phanus obscurior</i> Kaye, 1925	2
<i>Udranomia orcinus</i> (C. & R. Felder, 1867)	1
<i>Urbanus belli</i> (Hayward, 1935)	1
<i>Urbanus doryssus</i> (Swainson, 1831)	1
<i>Urbanus esmeraldus</i> (Butler, 1877)	3
<i>Urbanus</i> sp. 1 near but not <i>doryssus</i> (Swainson, 1831)	1

Hesperiinae

<i>Eutychide</i> sp. 1 (Hewitson, 1876)	2
<i>Saliana</i> sp. 1 near <i>salius</i> (Kaye, 1914)	3
<i>Synapte puma</i> (Latreille, 1824)	8
<i>Synapte</i> sp. 3	2
<i>Synapte</i> sp. 4	1
<i>Thargella caura</i> (Plötz, 1882)	11
<i>Thargella</i> sp. 2	2
<i>Turesis complanula</i> (Herrich-Schäffer, 1869)	4

Pyrginae

<i>Cyclosemia</i> sp. 1 near <i>anastomosis</i> Mabille, 1878	1
<i>Cycloglypha thrasibulus</i> (Fabricius, 1793)	1
<i>Pythonides proxenus</i> (Goldman & Salvin, 1895)	2
<i>Quadrus contubernalis</i> (Mabille, 1883)	2

Unknown

Unknown genus sp. 17	4
Unknown genus sp. 22	1
Unknown genus sp. 42	2

LYCAENIDAE

Theclinae

<i>Arawacus lincoides</i> (Draudt, 1917)	2
<i>Calycopis cerata</i> (Hewitson, 1877)	6
<i>Calycopis</i> sp. 4 near <i>puppius</i> (Goldman & Salvin, 1887)	2
<i>Calycopis</i> sp. 5 near <i>isobeon</i> (Butler & Druce, 1872)	1
<i>Calycopis</i> sp. 6	2
<i>Celmia celmus</i> (Cramer, 1775)	3
<i>Chalybs jantias</i> (Cramer, 1779)	2
<i>Eumaeus godartii</i> (Boisduval, 1870)	1

<i>Symbiopsis tanais</i> (Goldman & Salvin, 1887)	1
<i>Theritas hemon</i> (Cramer, 1775)	1
Unknown	
Unknown genus sp. 13	1
Unknown genus sp. 15	2
Unknown genus sp. 16	1
NYMPHALIDAE	
Apaturinae	
<i>Doxocopa clothilda</i> (C. & R. Felder, 1867)	1
Biblinae	
<i>Callicore lyca</i> (Godman & Salvin, 1883)	1
<i>Catonephele orites</i> Stichel, 1898	4
<i>Eunica chlororhoa</i> Godman & Salvin, 1877	1
<i>Pyrrhogyra</i> sp. 1 near <i>crameri</i> Aurivillius 1882	8
Charaxinae	
<i>Prepona laertes</i> Fruhstorfer, 1905	1
<i>Prepona dexamenus</i> Hopffer, 1874	1
Cyrestinae	
<i>Marpesia chiron</i> (Fabricius, 1775)	2
Danainae	
<i>Aeria eurimedia</i> Godman & Salvin, 1879	4
<i>Hypoleria lavinia</i> Godman & Salvin, 1879	15
<i>Hypothyris euclea</i> (Haensch, 1909)	2
<i>Mechanitis lysimnia</i> Hewitson, 1860	1
<i>Mechanitis polymnia</i> Bates, 1863	1
<i>Melinaea idae</i> C. & R. Felder, 1862	10
<i>Melinaea lilis</i> Butler, 1873	1
<i>Melinaea</i> sp. 4 near <i>lilis</i> Butler, 1873	1
<i>Melinaea</i> sp. 2	3
<i>Melinaea</i> sp. 3	2
Heliconiinae	
<i>Dryadula phaetusa</i> (Linnaeus, 1758)	1
<i>Dryas iulia</i> (Fabricius, 1775)	4
<i>Heliconius cydno</i> Bates, 1864	14
<i>Heliconius erato</i> Doubleday, 1847	29
<i>Heliconius hecale</i> Bates, 1866	2
<i>Heliconius sapho</i> (Drury, 1782)	7
<i>Heliconius sara</i> Stichel, 1906	4
<i>Laparus doris</i> (Linnaeus, 1771)	2
<i>Philaethria dido</i> (Linnaeus, 1763)	9
Limnitiinae	
<i>Adelpha basiloides</i> (Bates, 1865)	2
<i>Adelpha cocala</i> (Boisduval, 1870)	1
<i>Adelpha iphiclus</i> (Linnaeus, 1758)	5
Nymphalinae	
<i>Janatella leucodesma</i> (C. & R. Felder, 1861)	4
<i>Siproeta stelenes</i> (Fruhstorfer, 1907)	2
<i>Tigridia aesta</i> (Linnaeus, 1758)	1
Satyrinae	
<i>Caligo brasiliensis</i> Fruhstorfer, 1904	2
<i>Catoblepia orgetorix</i> Bristow, 1981	1
<i>Chloreuptychia amaca</i> (Fabricius, 1776)	5
<i>Cissia pseudoconfusa</i> Singer, DeVries & Ehrlich, 1983	1
<i>Cissia</i> sp. 2	1
<i>Cissia terrestris</i> (Butler, 1867)	5
<i>Cithaerias pireta</i> (Stoll, 1780)	64
<i>Euptychia mollis</i> Staudinger, 1875	5
<i>Hermeuptychia</i> sp. 1 near but not <i>hermes</i> (Fabricius, 1775)	1

<i>Magneptychia agnata</i> (Schaus, 1913)	3
<i>Magneptychia libye</i> (Linnaeus, 1767)	1
<i>Morpho helenor</i> Kollar, 1850	11
<i>Morpho menelaus</i> Deyrolle, 1860	9
<i>Pareptychia binocula</i> (Butler, 1869)	22
<i>Pierella luna</i> (Fabricius, 1793)	210
<i>Taygetis leuctra</i> Butler, 1870	5
PAPILIONIDAE	
Papilioninae	
<i>Parides childrenae</i> (Gray, 1832)	3
<i>Parides erithalion sadyattes</i> (Druce, 1874)	1
<i>Parides erithalion smalli</i> Brown, 1994	15
<i>Parides eurimedes</i> (Godman & Salvin, 1890)	2
<i>Parides sesostris</i> (Boisduval, 1836)	12
PIERIDAE	
Coliadinae	
<i>Eurema albula</i> (C. & R. Felder, 1861)	4
<i>Phoebis argante</i> (Fabricius, 1775)	6
<i>Phoebis sennae</i> (Cramer, 1777)	1
<i>Phoebis</i> sp. 1 near <i>argante</i> (Fabricius, 1775)	1
Pierinae	
<i>Glutophrissa drusilla</i> (Lamas, 1981)	6
<i>Itaballia demophile</i> (Linnaeus, 1758)	64
<i>Itaballia pandosia</i> (Fruhstorfer, 1907)	74
<i>Itaballia</i> sp. 1 near <i>demophile</i> (Linnaeus, 1758)	1
RIODINIDAE	
Riodininae	
<i>Ancyluris inca</i> (Saunders, 1850)	2
<i>Argyrogrammana crocea</i> (Godman & Salvin, 1878)	1
<i>Calephelis iris</i> (Staundinger, 1876)	2
<i>Detritivora hermodora</i> (C. & R. Felder, 1861)	118
<i>Eurybia cyclopia</i> Stichel, 1910	1
<i>Eurybia lycisca</i> Westwood, 1851	1
<i>Eurybia patrona</i> Weymer, 1875	1
<i>Hyphilaria parthenis</i> (Westwood, 1851)	1
<i>Juditha caucana</i> (Stichel, 1911)	4
<i>Leucochimona iphias</i> Stichel, 1909	1
<i>Mesosemia hesperina</i> Butler, 1874	38
<i>Mesosemia lamachus</i> Hewitson, 1857	2
<i>Metacharis victrix</i> (Hewitson, 1870)	27
<i>Nymphidium haematostichum</i> Godman & Salvin, 1878	1
<i>Peropthalma tullius</i> (Fabricius, 1787)	11